



ADVANCED  
SOLUTIONS

DIA  
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# Diamer:

Polymers with Diamond Structure

[diamer.org](http://diamer.org)

# A B O U T U S



**Diamer Company** specializes in the production of composites with complex geometries, high-tech engineered parts, and lightweight structures designed to deliver superior mechanical performance and functional efficiency across advanced industries. Our vision is to deliver knowledge-based technologies and sustainable solutions aligned with international environmental standards.

## **Company Introduction**

At Diamer, we prioritize strong customer service, ensuring responsive communication, tailored technical support, and reliable after-sales assistance to guarantee complete client satisfaction.

## **Ideal Quality**

Using top-grade polymer raw materials and leveraging professional composite manufacturing techniques such as **infusion**, combined with our deep technical expertise, we deliver products that meet and exceed international standards.

## **Sustainable Development**

Continuous monitoring of markets and scientific research drives our ability to innovate, adapt, and sustainably meet the evolving needs of our clients.

## **Environmental Protection**

Our commitment to sustainable innovation drives us to engineer advanced, lightweight composite materials with exceptional durability, optimized performance, and long lifespan, delivering high added value while reducing energy use and ecological footprint.



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## Ships and Vessels

- Ultra-lightweight hull made of carbon fiber and GFRP for speed and fuel efficiency
- Exceptional resistance to corrosion and harsh marine conditions
- Hydrodynamic design for reduced drag and higher performance
- Long service life with minimal maintenance needs
- Advanced manufacturing technology meeting global marine standards

## Racing Cars

- Multi-layer composite structure resistant to heat and flames
- Lightweight for enhanced mobility and reduced fatigue
- High impact and puncture resistance

## Protective Clothing

- Carbon fiber body for extreme lightness and maximum acceleration
- High structural strength against crashes and racing stress
- Aerodynamic form optimized for top speed and stability
- Heat and vibration resistance for high-performance conditions



## Buses and Public Transportation

- GFRP body panels for lightweight structure and corrosion resistance
- SMC components for high surface quality and aerodynamic shaping
- Full CAD-based design optimizing aerodynamics and reducing weight
- Precision composite molding enabling high-volume, consistent production
- Integrated battery and electrical systems within the composite body for safety and space efficiency

## Car Bodies

- Carbon fiber composite used for hood and bumper – high strength-to-weight ratio
- Lightweight design improving vehicle performance and fuel efficiency
- High resistance to impact, corrosion, and temperature variations
- Precision molding and finishing for superior surface quality
- First-time production in the Middle East for automotive exterior parts using carbon composites



## Truck Bodies

- Composite cover designed for Pickup Truck
- Glass fiber reinforced polymer (GFRP) structure for durability and reduced weight
- High impact resistance to protect valuable cargo during transit
- Weatherproof and corrosion-resistant for long service life in diverse climates
- Custom-fit design ensuring secure installation and enhanced vehicle functionality

## Car Interiors

- Composite dashboard designed specifically for heavy-duty trucks
- Glass fiber reinforced polymer (GFRP) for durability and reduced weight
- High thermal and impact resistance ensuring long service life
- Precision molding for accurate fit and superior surface finish
- Ergonomic design enhancing driver comfort and vehicle aesthetics

## Shafts

- Composite drive shafts for automotive, marine, and industrial applications
- Carbon fiber reinforced polymer for exceptional strength-to-weight ratio
- High torsional stiffness and vibration damping for improved performance
- Corrosion-resistant and maintenance-free for extended service life
- First-time production in the Middle East using advanced composite manufacturing



## Pipelines

- Composite pipeline and fittings for large-scale fluid transport systems
- Glass fiber reinforced polymer (GFRP) for high strength-to-weight ratio and corrosion resistance
- Custom-fabricated joints and bends to meet project-specific layouts
- Lightweight sections enabling easier handling and faster installation
- Long service life with minimal maintenance in harsh environmental conditions

## Valves

- Composite valves designed to replace alloy valves in industrial applications
- Types produced: air, butterfly and check valves
- Thermal resistance up to 100 °C with excellent saltwater tolerance
- Chemical resistance to acids and bases up to 60%

## Air Handling System

- Composite structures for industrial storehouses and air handling systems
- GFRP ducts, flanges, and dampers for lightweight corrosion-resistant performance
- High durability against chemicals, moisture, and environmental stress
- Custom fabrication to meet industrial ventilation and storage requirements
- Low-maintenance solution with long operational life in harsh environments



## Cooling Towers

- Modular-format cooling tower for industrial applications
- Composite construction for corrosion resistance and long service life
- Lightweight modular design enabling easy transport and installation
- High thermal efficiency for optimized cooling performance
- Custom design and manufacture are available to meet customer needs

## Composite Tanks

- Composite tank and internal lining for hydrochloric acid storage
- Glass fiber reinforced polymer (GFRP) with chemical-resistant resin system
- High corrosion resistance ensuring safe long-term acid containment

## Wind Turbines

- Composite blades for wind turbines, fans, and industrial applications
- Glass fiber or carbon fiber reinforced resin for optimal strength-to-weight ratio
- Manufactured using vacuum infusion process for superior quality and structural integrity
- High fatigue resistance for long operational life under cyclic loads
- First-time production in the Middle East using the infusion method



## Buoys

- Composite marine clamp buoys designed for offshore and port applications
- Glass fiber reinforced polymer (GFRP) for high strength, corrosion resistance and buoyancy
- First-time production in the Middle East for this buoy type
- Custom-engineered design by LG Company
- Durable coating for UV protection and long-term marine performance





## Waterproof Boxes

- Waterproof composite box designed for battery storage and burial
- Glass fiber reinforced polymer (GFRP) sandwich panel for strength and water resistance
- Fully sealed construction to protect telecommunication tower batteries from moisture and soil
- High durability against corrosion, impact, and environmental stress

## Decorative Items

- High-quality surface finish suitable for aesthetic and functional purposes
- Custom design and manufacturing to match specific project themes
- Durable material with resistance to wear, impact, and environmental factors

Y a t c h

Ship strucher

Racing Cars

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Buses and Public Transportation

C a r B o d i e s

Car Interiors

P i p e l i n e s

Cruise ship

Air handling system

C o m p o s i t e T a n k s

Wind Turbines

B u o y s



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